| Form PTO-               | 1449     |          |  |             |              |                | U.S        | . DEF      | ARTMENT            | OF COMMERCE                 | ATTY. DOCKET NO.            | SEI             | RIAL NO.           |  |             |
|-------------------------|----------|----------|--|-------------|--------------|----------------|------------|------------|--------------------|-----------------------------|-----------------------------|-----------------|--------------------|--|-------------|
| (REV. 8-83)             |          |          |  |             |              |                | PAT        | TENT       | AND TRAI           | DEMARK OFFICE               | 6019.3027                   | 09              | /525,412           |  |             |
|                         |          |          |  |             |              |                |            |            |                    |                             | APPLICANT                   |                 |                    |  | <del></del> |
| IN                      | FOF      | RMA      | ATI(   | NC          | DI           | SCL            | ost        | JRE        | E CITAT            | TION                        | SHEPPARD                    |                 |                    |  |             |
|                         |          |          |  |             |              |                |            |            |                    |                             | FILING DATE                 | GR              | OUP                |  |             |
|                         |          |          | (U   | se sev      | veral s      | sheets         | if nec     | essary     | v)                 |                             | 03/15/2000                  | UN              | KNOWN              |  |             |
|                         |          |          |  |             |              |                |            |            | U.S. F             | ATENT DOCU                  | MENTS                       |                 |                    |  |             |
| EXAMINER<br>INITIAL     |          |          | ### PATENT AND TRADEMARK OFFICE   6019.3027   09/525, 412   APPLICANT   SHEPPARD |             |              |                |            |            |                    |                             |                             | DATE<br>OPRIATE |                    |  |             |
| 363                     | AA       | 5        | 5  | 7           | 4            | 9              | 6          | 4          | 11/96              | Hamlin                      |                             | 455             | 3.1                |  |             |
| 553                     | AB       | 5        | 6  | 1           | 3            | 1              | 9          | 0          | 03/97              | Hylton                      |                             | 455             | 3.1                |  |             |
| 5ED                     | AC       | 5        | 6  | 1           | 3            | 1              | 9          | 1          | 03/97              | Hylton et                   | al.                         | 455             | 3.1                | TPE  | 7           |
| 5165                    | AD       | 5        | 6  | 3           | 0            | 2              | 0          | 4          | 05/97              | Hylton et                   | al.                         | 455             | 3.3                | <u>)                                    </u> | <u> </u>    |
| 5 <del>68</del> 5       | AE       | 5        | 7  | 9           | 3            | 4              | 1          | 3          | 08/98              | Hylton et                   | al.                         | 348             |                    | PR 1 4 20                                    | 00 33       |
| 5GB                     | AF       | 5        | 8  | 2           | 8            | 4              | 0          | 3          | 10/98              | DeRodeff e                  | t al.                       | 348             | 3.1                |  | RET S       |
|                         |          |          | ļ  |             |              |                |            |            |                    |                             |                             |                 |                    | CO TRADE                                     |             |
|                         |          |          |  |             |              |                | ·          |            |                    |                             |                             |                 |                    |  |             |
|                         |          |          |  |             |              |                |            |            |                    |                             |                             |                 |                    |  |             |
|                         |          |          |  |             |              |                |            |            |                    |                             |                             |                 |                    |  |             |
|                         |          |          |  |             |              |                |            |            |                    |                             |                             |                 | <u> </u>           |  |             |
|                         |          | 1        | ·  | <b>L</b>    | 1            |                |            | L          | FOREIG             | N PATENT DO                 | CUMENTS                     | L               | 1                  | <u></u>                                      |             |
|                         |          |          | DO   | CUM         | ENT          | NUM            | BER        |            | DATE               | CC                          | DUNTRY                      | CLASS           | SUBCLASS           | TRANSI                                       | LATION      |
|                         |          |          |  |             |              |                |            |            |                    |                             |                             |                 |                    | YES  | NO          |
| 5565                    | BA       | 9        | 7  | 3           | 9            | 4              | 8          | 3          | 8/97               | WO                          |                             |                 |                    |  |             |
|                         |          |          |  |             | ļ            | ļ              |            |            |                    |                             |                             |                 | <del> </del>       |  |             |
|                         |          |          | <u> </u>   |             |              | <del> </del>   |            |            |                    |                             |                             |                 |                    |  |             |
|                         |          |          |  |             |              |                |            |            |                    |                             |                             |                 |                    |  |             |
|                         |          |          |  |             |              | <del> </del> - |            |            |                    |                             | · -                         |                 | <del>-  </del>     |  |             |
|                         | I        | 1        | 1  | <u> </u>    |              | THI            | ER D       | OCI        | JMENTS             | (Including Author, T        | Title, Date, Pertinent Page | s, Etc.)        | 1                  |  |             |
| <del>56</del> 15        | CA       |          | Re   | sid         | ent          | ial            | Gat        | ewa        | y Group            | publication                 | on, "The reside             | ntial           | gateway",          | Octobe                                       | er,         |
| 749                     | СВ       |          | Ge:  | 95,<br>ner: | ic 1         | pp.<br>Requ    | iire       | men        | t, Bell            | core, "Acti                 | ve Network Int              | erfac           | e Device (         | Resider                                      | ntial       |
| SEB                     | CC       |          | Ga   | tew         | ay)          | ," (           | SR-2       | 890        | -CORE,             | issue 2, No                 | vember 1996, 1              | 9 pp.           |                    |  |             |
| 550                     |          |          | pr:<br>wel   | int<br>bsp  | ed :<br>ec.1 | fron<br>htm    | n.th<br>on | e W<br>Jul | orld Wi<br>y 24, 1 | de Web site $996$ , $6$ pp. | http://info.g               | te.co           | m/gtel/spo         | nsored                                       | rg/         |
| 500                     | CD       |          | Co-  | -pe         | ndi          | ng (           | J.S.       | Ap         | plicati            | on # 09/526                 | ,100 filed on               | March           | 15, 2000.          |  |             |
| EXAMINER                | u i      | ,        | -  |             |              |                |            |            |                    |                             | DATE CONSIDERED             |                 |                    |  |             |
| /h/V                    | <u> </u> | <u>-</u> |  |             |              |                |            |            |                    |                             | 1/22/03                     |                 |                    |  |             |
| EXAMINEI considered. In | K: Init  | tial if  | Citatio  | on cor      | nsider       | ed, w          | hether     | OF III     | ot citation is     | in conformance with         | MPEP 609; Draw line th      | rough cita      | tion if not in con | formance an                                  | d not       |

| sheet | 2 | of | 2 |
|-------|---|----|---|
| SHEEL |   | OI |   |

|                     |   |          |               |           |   |                |        |                             |                  |                            |  |          | silect _        | <del></del> 01. |          |
|---------------------|---|----------|---------------|-----------|---|----------------|--------|-----------------------------|------------------|----------------------------|--|----------|-----------------|-----------------|----------|
| Form PTO-           | Form PTO-1449 U.S. DEPARTMENT OF COMMERCE |          |               |           |   |                |        | ATTY. DOCKET NO. SERIAL NO. |                  |                            |  |          |                 |                 |          |
| (REV. 8-83)         |   |          |               |           |   | PATI           | ENT A  | AND TRADE                   | EMARK OFFICE     | 6019.3027                  | (  | 09/5     | 525,412         |                 |          |
|                     |   |          |               |           |   |                |        |                             |                  | APPLICANT                  |  |          |                 |                 |          |
| IN                  | FOF                                       | RMA      | TION          | DIS       | CL  | OŞU            | RE     | CITAT                       | ION              | SHEPPARD                   |  |          |                 |                 |          |
|                     |   |          |               |           |   |                |        |                             |                  | FILING DATE GROUP          |  |          |                 |                 |          |
|                     |   |          | (Use s        | everal si | heets   | f nece         | ssary) |                             |                  | 03/15/2000                 |  |          |                 |                 |          |
|                     |   |          |               |           |   |                |        | U.S. PA                     | ATENT DOCU       | MENTS                      |  |          |                 |                 |          |
| EXAMINER<br>INITIAL |   |          | DOCU          | MENT      | NUM   | BER            |        | DATE                        |                  | NAME                       | CLA  | ASS      | SUBCLASS        | FILING<br>IF    |          |
|                     |   |          | I I           | ···       | <del>                                      </del> |                |        |                             |                  |                            | <del> </del>                                 |          |                 | APPROPRIATE     |          |
|                     |   |          |               |           |   | -              |        |                             |                  |                            |  |          |                 |                 |          |
|                     |   |          | <del>  </del> |           | -   |                |        |                             | (5)              |                            | -  |          |                 |                 |          |
| <u> </u>            |   |          |               |           |   |                |        |                             | OIP              | E 7085                     |  |          |                 |                 |          |
|                     |   |          |               |           |   | <u> </u>       | ļ      |                             | APD 1            | 4 2000 営                   | -  |          |                 |                 |          |
|                     |   |          |               |           |   |                |        |                             |                  | - 8/                       | <del> </del>                                 |          |                 |                 |          |
|                     |   |          |               |           |   |                |        |                             | CATENTS I        | RADEMARK                   | <u>                                     </u> |          |                 |                 |          |
|                     |   |          | -             |           | <del>                                     </del>  | <del> </del>   |        |                             |                  |                            | ┼  |          |                 |                 | <u> </u> |
|                     |   |          |               |           |   | <del> </del> - |        |                             |                  |                            | ļ  | .        |                 |                 |          |
|                     |   |          |               |           | $\vdash$  |                |        |                             |                  |                            | <u> </u>                                     |          |                 |                 |          |
|                     |   |          |               |           | <del> </del>                                      |                |        |                             |                  |                            | _  |          |                 |                 |          |
|                     |   |          | Ll_           |           | <u> </u>  | L              |        | ORFIGN                      | PATENT DOC       | IIMENTS                    | <u> </u>                                     |          |                 |                 |          |
|                     |   |          | DOCH          | MENT      | MIIM  | SED            |        | DATE                        | ,                | OUNTRY                     | CLA  | VCC      | SUBCLASS        | TRANSL          | ATION    |
|                     | DOCUMENT NUMBER DATE                      |          |               |           |   |                | DATE   |                             | CONTRI           | CLA                        | 133  | SUBCLASS |                 |                 |          |
| ···                 |   |          | Г-            |           | Ι   | 1              |        |                             |                  |                            | ļ  |          |                 | YES             | NO       |
|                     |   |          |               | _         | ļ   |                |        |                             |                  |                            | ļ  |          |                 |                 |          |
| <del></del>         |   |          |               | _         | <u> </u>  | ļ              |        |                             |                  |                            |  |          |                 |                 |          |
|                     |   |          |               |           | <u> </u>  |                |        |                             |                  |                            |  |          |                 |                 |          |
|                     |   |          |               |           | <u> </u>  |                |        |                             |                  |                            |  |          | .,              |                 |          |
|                     |   |          |               |           | ļ   |                |        |                             |                  |                            |  |          |                 |                 |          |
|                     |   |          |               |           |   |                |        |                             |                  | le, Date, Pertinent Pages, |  |          | _               |                 | :        |
| 515                 | -CE                                       |          |               |           |   |                |        |                             |                  | ,488 filed on              |  |          |                 |                 |          |
| 523                 | CF  |          |               |           |   |                |        |                             |                  | 3,275 filed on             |  |          |                 |                 |          |
| 4B -                | CG  |          | -Со-р         | end-i-ı   | ng-[  | J.S.           | ďĀ.    | plicati                     | on #- 0.9./0.26  | ,038 filed on              | 02/1   | 19/1     | .998            |                 |          |
|                     |   |          |               |           |   |                |        |                             |                  |                            |  |          |                 |                 |          |
|                     |   |          |               |           |   |                |        |                             |                  |                            |  |          |                 |                 |          |
|                     |   |          |               |           |   |                |        | <del> </del>                |                  |                            |  |          |                 |                 |          |
| EXAMINER            | 1.  |          |               |           |   | -              |        |                             | · · ·            | DATE CONSIDERED            | -  |          |                 |                 |          |
| 1.26                | 1   |          |               |           |   |                |        |                             |                  | 1/22/03                    | <u>.</u>                                     |          |                 |                 |          |
| EXAMINE             | d: Init                                   | ial if c | itation c     | onsidere  | d, wh   | ether (        | or not | citation is in              | conformance with | MPEP 609; Draw line thi    | rough c                                      | itation  | if not in confo | rmance and      | not      |

considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

INFORMATION DISCLOSURE ST

DEC 2 8 2001

ATTY. DOCKET NO. 25684.114-US00

APPLICATION NO

APPLICANTS: SHEPPARD et al.

|      |  |   |  | FILING DATE: March 15  | , =000   | - TA-   | .k  |
|------|--|---|--|--|--|---|---|
|      |  |   | U.S  | . PATENT DOCUMENTS   |  | 180   | hnology Center  |
| REF. | DOC  | CUMENT  | GRANT  |  |  | SUB-  |   |
| NO.  | _  |   | DATE   | NAME   | CLASS  | CLASS   | FILING DATE   |
| AA1  | 5,71   | 5,020   | 02/03/98   | Kuroiwa et al.   | 348  | 734   | 02/23/96  |
| AB1  | 5,93   | 3,192   | 08/03/99   | Crosby et al.  | 348  | 10  | 06/18/97  |
| AC1  | 5,610  | 0,916   | 03/11/97   | Kostreski et al.   | 370  | 69  | 05/16/95  |
| AD1  | 5,65   | 1,010   | 07/22/97   | Kostreski et al.   | 370  | 50  | 03/16/95  |
| AE1  | 5,659  | 9,353   | 08/19/97   | Kostreski et al.   | 348  | 21  | 03/17/95  |
| AF1  | 5,729  | 9,279   | 03/17/98   | Fuller   | 348  | 384   | 01/26/95  |
| AG1  | 5,52   | 1,631   | 05/28/96   | Budow et al.   | 348  | 6   | 05/25/94  |
| AH1  | 5,628  | 8,055   | 05/06/97   | Stein  | 455  | 89<br>10  | 12/12/94  |
| All  | 5,842  | 2,111   | 11/24/98   | Byers  | 348  |   | 08/23/96  |
| AJ1  | 5,930  | 6,660   | 08/10/99   | Gurantz  | 348  | 734   | 12/10/97  |
| AK1  | 5,91   | 7,624   | 06/29/99   | Wagner   | 359  | 125   | 08/07/96  |
| AL1  | 6,31   | 7,884   | 11/13/01   | Eames et al.   | 348  | 6   | 02/19/98  |
| AM1  | 5,953  | 3,045   | 09/14/99   | Tanishima  | 348  | 10  | 09/25/96  |
| AN1  | 5,708  | 8,961   | 01/13/98   | Hylton et al.  | 348  | 6   | 08/18/95  |
| AO1  | 5,70   | 1,152   | 12/23/97   | Chen   | 455  | . 2   | 09/28/95  |
| REF. | NO. 1  | Co-Pending<br>Title: Wirel  | Related U.S. Patess and xDSL Re  | ent Application No. 09/612,562   | , etc.)  |   |   |
| AQ   | 1  |   |  |  |  |   |   |
| AR   | 1  |   |  |  |  |   |   |
| AS   | 1  |   |  |  |  |   |   |
|      |  | 1   |  |  |  |   |   |
|      | AAI ABI ACI ADI AEI AGI AHI AJI AKI ANI AOI  REF. AP | AA1 5,71. AB1 5,93. AC1 5,61. AD1 5,65. AE1 5,62. AH1 5,62. AH1 5,93. AK1 5,91. AL1 6,31. AM1 5,95. AN1 5,70. AO1 5,70  REF. NO. AP 1  AQ 1  AR 1 | AA1 5,715,020 AB1 5,933,192 AC1 5,610,916 AD1 5,651,010 AE1 5,659,353 AF1 5,729,279 AG1 5,521,631 AH1 5,628,055 AI1 5,842,111 AJ1 5,936,660 AK1 5,917,624 AL1 6,317,884 AM1 5,953,045 AN1 5,708,961 AO1 5,701,152  REF. NO. OTHE AP 1 Co-Pending Title: Wirel Filed: July AR  AR 1  AR 1 | AA1 5,715,020 02/03/98 AB1 5,933,192 08/03/99 AC1 5,610,916 03/11/97 AD1 5,651,010 07/22/97 AE1 5,659,353 08/19/97 AF1 5,729,279 03/17/98 AG1 5,521,631 05/28/96 AH1 5,628,055 05/06/97 AI1 5,842,111 11/24/98 AJ1 5,936,660 08/10/99 AK1 5,917,624 06/29/99 AL1 6,317,884 11/13/01 AM1 5,953,045 09/14/99 AN1 5,708,961 01/13/98 AO1 5,701,152 12/23/97  REF. NO. OTHER (Including Au AP 1 Co-Pending Related U.S. Pat Title: Wireless and xDSL Refiled: July 7, 2000  AQ 1  AR 1 | AA1       5,715,020       02/03/98       Kuroiwa et al.         AB1       5,933,192       08/03/99       Crosby et al.         AC1       5,610,916       03/11/97       Kostreski et al.         AD1       5,651,010       07/22/97       Kostreski et al.         AE1       5,659,353       08/19/97       Kostreski et al.         AF1       5,729,279       03/17/98       Fuller         AG1       5,521,631       05/28/96       Budow et al.         AH1       5,628,055       05/06/97       Stein         AII       5,842,111       11/24/98       Byers         AJ1       5,936,660       08/10/99       Gurantz         AK1       5,917,624       06/29/99       Wagner         AL1       6,317,884       11/13/01       Eames et al.         AM1       5,953,045       09/14/99       Tanishima         AO1       5,701,152       12/23/97       Chen         REF. NO.       OTHER (Including Author, Title, Date, Pertinent Pages         AP       1       Co-Pending Related U.S. Patent Application No. 09/612,562         Title: Wireless and xDSL Residential Gateway and System         Filed: July 7, 2000 | AA1       5,715,020       02/03/98       Kuroiwa et al.       348         AB1       5,933,192       08/03/99       Crosby et al.       348         AC1       5,610,916       03/11/97       Kostreski et al.       370         AD1       5,651,010       07/22/97       Kostreski et al.       370         AE1       5,659,353       08/19/97       Kostreski et al.       348         AF1       5,729,279       03/17/98       Fuller       348         AG1       5,521,631       05/28/96       Budow et al.       348         AH1       5,628,055       05/06/97       Stein       455         AI1       5,842,111       11/24/98       Byers       348         AJ1       5,936,660       08/10/99       Gurantz       348         AK1       5,917,624       06/29/99       Wagner       359         AL1       6,317,884       11/13/01       Eames et al.       348         AM1       5,953,045       09/14/99       Tanishima       348         AO1       5,701,152       12/23/97       Chen       455         REF. NO.       OTHER (Including Author, Title, Date, Pertinent Pages, etc.)         AQ       1 | AA1       5,715,020       02/03/98       Kuroiwa et al.       348       734         AB1       5,933,192       08/03/99       Crosby et al.       348       10         AC1       5,610,916       03/11/97       Kostreski et al.       370       69         AD1       5,651,010       07/22/97       Kostreski et al.       370       50         AE1       5,659,353       08/19/97       Kostreski et al.       348       21         AF1       5,729,279       03/17/98       Fuller       348       384         AG1       5,521,631       05/28/96       Budow et al.       348       6         AH1       5,628,055       05/06/97       Stein       455       89         AI1       5,842,111       11/24/98       Byers       348       10         AJ1       5,936,660       08/10/99       Gurantz       348       734         AK1       5,917,624       06/29/99       Wagner       359       125         AL1       6,317,884       11/13/01       Eames et al.       348       6         AM1       5,953,045       09/14/99       Tanishima       348       6         AO1       5,701,152       12/23/97 |

**EXAMINER** 

DATE CONSIDERED

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.